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Application No.: 10/688,943

Docket No.: 300200223-2 US (1509-414)

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended): A method of processing data received by a server from a submission interface, ~~and hosted~~the processing data originating at a client computing entity within a network, ~~which the data includes including~~ at least an Identifier of the submission interface identifier, an identifier of the client computing entity, a client identifier and client selection data, the method being performed at the server and comprising the steps of:

generating an identifier for a session record of state for the client transaction session instigated by the client computer entity,

mapping the session record identifier being mapped to the client identifier;

selecting, on the basis of the interface identifier, a set of rules for transforming the client selection data to a format which is independent of the nature of the client computing entity, and implementing the selected rules to transform so the client selection data are transformed to the format which is independent of the nature of the client computing entity; and

incorporating the transformed client selection data within the session record to which the transformed client selection data relates relate using at least one of the client identifier and the session record identifier to correlate so the transformed client data are correlated with the session record.

2. (original): A method according to claim 2 wherein the submission interface includes at least one control which maps to a rule of the aforesaid set of rules.

3. (original): A method according to claim 1 further comprising the step of

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generating, from the session record, a further submission interface, and sending the further submission interface to the client.

4. (original): A method according to claim 3 further comprising the step of generating, from the session record, a further set of rules for transformation of further client selection data from the further submission interface.

5. (currently amended): A method according to claim 3 further comprising the step of receiving further client selection data from the further submission interface, and further updating the session record following transformation of the further client selection data to the format which is independent of the nature of the client computing entity.

6. (currently amended): A method according to claim 5 wherein a further client identifier accompanying the further client selection data is different ~~[[to]]~~from the client identifier accompanying the client original client selection data.

7. (original): A method according to claim 6 wherein the session record identifier is used to correlate the transformed further client selection data with the session record.

8. (currently amended): A method of generating an XML document reflecting the state of the interaction of a client's interaction-computer entity with a server; the method being performed by the server and comprising the steps of:

dispatching to the client computer entity a submission interface with at least one control;

mapping an identifier for the submission interface to a set of rules for ~~transforming~~that transforms client selection data generated by ~~means of the~~ at least one control from the submission interface of the client selection data being transformed to a format which is independent of the nature of the client computer entity;

upon receipt of the client selection data, identifying the set of rules which maps to

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the submission interface identifier;

applying the identified set of rules ~~transform so~~ the client selection data are transformed to the format which is independent of the client's computer entity; and

recording the transformed client selection data ~~to generate so~~ the aforesaid XML document is generated.

9. (original): A method according to claim 8 further comprising the step of generating an identifier for a session of transactions with the client.

10. (original): A method according to claim 9 wherein generation of the session identifier takes place prior to transformation of the client selection data.

11. (original): A method according to claim 9 further comprising the step of using the session identifier to identify the XML session document.

12. (original): A method according to claim 8 further comprising the steps of:
using the document to generate a further submission interface and sending the further submission interface to the client;

transforming further client selection data from the further submission interface using a set of rules used to generate the further submission interface;
and incorporating the transformed further client selection data in the document.

13. (original): A method according to claim 8 further comprising the step of using a client identifier to map transformed client selection data to the document in order to update the document with the transformed client selection data.

14. (currently amended): A program storage device, readable by a server machine, tangibly embodying a program of instructions executable by the server machine [[to]]so the server machine can perform a method of processing data received from a submission interface and hosted at a client computing entity within a network, the

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data including at least an interface identifier of the interface, an identifier of the client computing entity, a client identifier and client selection data, the method comprising:

generating an identifier for a session record of state for the client,

mapping the session record identifier being mapped to the client identifier;

selecting a set of rules for transforming the client selection data on the basis of the interface identifier, the set of rules being capable of transforming the client selection data to a format which is independent of the nature of the client computing entity;

transforming the client selection data to the data format which is independent of the nature of the client computing entity by implementing the selected rules; and

correlating the transformed client data to the data format which is independent of the nature of the client computing entity with the session record by incorporating the transformed client selection data within the session record to which the transformed client selection data relates by using at least one of the client identifier and the session record identifier.

15. (previously presented): The program storage device according to claim 14, further comprising mapping to one of the set of rules with at least one control included in the submission interface.

16. (previously presented): The program storage device according to claim 14, the method further comprising generating a further submission interface from the session record, and sending the further submission interface to the client.

17. (previously presented): The program storage device according to claim 16, the method further comprising generating a further set of rules from the session record, the further set of rules for transformation of further client selection data being from the further submission interface.

18. (previously presented): The program storage device according to claim 16, the method further comprising receiving further client selection data from the further

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submission interface, and further updating the session record following transformation of the further client selection data.

19. (previously presented): The program storage device according to claim 18, wherein a further client identifier accompanying the further client selection data is different from the client identifier accompanying the client original client selection data.

20. (previously presented): The program storage device according to claim 19, further comprising correlating the transformed further client selection data with the session record by using the session record identifier.

21. (currently amended): A program storage device, readable by a server machine, tangibly embodying a program of instructions executable by the server machine [[to]]so the server machine can perform a method of generating an Extensible Markup Language (XML) document reflecting the state of a client's the interaction of a client's computer entity with [[a]]the server machine, the method comprising:

sending a submission interface with at least one control to the client;

mapping an identifier for the submission interface to a set of rules for transforming client selection data generated by the at least one control from the submission interface, the set of rules being capable of transforming the client selection data to a format which is independent of the nature of the client computing entity;

identifying the set of rules that maps to the submission interface identifier upon receipt of the client selection data;

applying the identified set of rules transform-so the client selection data are transformed to the data format that is independent of the client computer entity; and

generating the XML document in response to the transformed client selection data.

22. (previously presented): The program storage device according to claim 21, the method further comprising generating an identifier for a session of transactions with

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the client.

23. (previously presented): The program storage device according to claim 22, wherein generation of the session identifier occurs prior to transformation of the client selection data.

24. (previously presented): The program storage device according to claim 22, the method further comprising identifying the XML document using the session identifier.

25. (previously presented): The program storage device according to claim 21, the method further comprising:

generating a further submission interface using the XML document and sending the further submission interface to the client;

transforming further client selection data from the further submission interface using a set of rules used to generate the further submission interface; and
incorporating the transformed further client selection data in the XML document.

26. (previously presented): The program storage device according to claim 21, the method further comprising updating the XML document with the transformed client selection data by using a client identifier to map transformed client selection data to the document.

27. (new): The method of claim 1 wherein the client identifier and the session record identifier are both used to correlate the transformed client data with the session record.

28. (new): The program storage device of claim 14 wherein the client identifier and the session record identifier are both used to correlate the transformed client data with the session record.

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29. (new): A method of communicating an order between a host computer and a server comprising sending a first message with a request for a transaction from the host computer to the server, the first message including an identification of the host computer and client selection data including an indicator of the nature of a purchase a user of the host computer wishes to make and be processed by the server, the server responding to the host computer identification and the client selection data of the first message by generating a session identifier for the transaction and a first submission interface including purchasing choices the user can make and the session identifier for the transaction, the session identifier identifying (a) the session as a whole and (b) the first submission interface; the server transmitting the first submission interface to the client computer; the user of the client computer responding to the first submission interface by selectively making purchasing choices and transmitting a second message to the server, the second message including (a) the host computer identifier, (b) the session identifier as a whole, (c) the first submission interface identifier and (d) client selection data including the purchasing choice made by the host computer user; the server responding to the second message by forming a second submission interface including (a) an acknowledgement of the purchasing choice, and (b) identifications of (i) the host computer, (ii) the transaction as a whole and (iii) an identification of the second submission interface that differs from the identification of the first submission interface; the server responding to one of the messages by accessing a set of rules for transforming the client selection data into data which can be included in the submission interfaces and that has the form of an XML document; the server transmitting the first and second submission interfaces to the client computer as XML documents.